untitled-2

February 27, 2025

```
[8]: pip install pandas
```

```
Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: pandas in
c:\users\advik\appdata\roaming\python\python312\site-packages (2.2.3)
Requirement already satisfied: numpy>=1.26.0 in
c:\users\advik\appdata\roaming\python\python312\site-packages (from pandas)
(2.2.2)
Requirement already satisfied: python-dateutil>=2.8.2 in
c:\users\advik\appdata\roaming\python\python312\site-packages (from pandas)
(2.9.0.post0)
Requirement already satisfied: pytz>=2020.1 in
c:\users\advik\appdata\roaming\python\python312\site-packages (from pandas)
(2024.2)
Requirement already satisfied: tzdata>=2022.7 in
c:\users\advik\appdata\roaming\python\python312\site-packages (from pandas)
(2025.1)
Requirement already satisfied: six>=1.5 in
c:\users\advik\appdata\roaming\python\python312\site-packages (from python-
dateutil>=2.8.2->pandas) (1.16.0)
Note: you may need to restart the kernel to use updated packages.

[notice] A new release of pip is available: 25.0 -> 25.0.1
[notice] To update, run: python.exe -m pip install --upgrade pip
```

```
[9]: import pandas as pd
```

```
[10]: df=pd.read_csv(r"C:\Users\advik\OneDrive\Desktop\CSVfile.csv")
```

```
[11]: print(df)
```

```
      Nane Class    Subject  Roll no Grade
0  aradhya    1A     python        1     A
1  radhika    1B    English        2     B
2   pragya    1C      Maths        3     C
3   shikha    1D    biology        4     D
4   sakshi    1E   Computer        5     E
```

```
    5    prachi    1F    science        6    F
    6     sneha    1G    Physics        7    H
    7     parul    1H      Hindi        8    I
    8    Aastha    1I  chemistry        9    J
```

[12]: `df.head()`

[12]:
```
        Nane Class   Subject  Roll no Grade
    0  aradhya    1A    python        1     A
    1  radhika    1B   English        2     B
    2   pragya    1C     Maths        3     C
    3   shikha    1D   biology        4     D
    4   sakshi    1E  Computer        5     E
```

[13]: `df.shape`

[13]: (9, 5)

[14]: `df.info`

[14]:
```
<bound method DataFrame.info of       Nane Class    Subject   Roll no Grade
    0  aradhya    1A     python        1     A
    1  radhika    1B    English        2     B
    2   pragya    1C      Maths        3     C
    3   shikha    1D    biology        4     D
    4   sakshi    1E   Computer        5     E
    5   prachi    1F    science        6     F
    6    sneha    1G    Physics        7     H
    7    parul    1H      Hindi        8     I
    8   Aastha    1I  chemistry        9     J>
```

[15]: `df.tail()`

[15]:
```
        Nane Class    Subject  Roll no Grade
    4   sakshi    1E   Computer        5     E
    5   prachi    1F    science        6     F
    6    sneha    1G    Physics        7     H
    7    parul    1H      Hindi        8     I
    8   Aastha    1I  chemistry        9     J
```

[16]: `df.dtypes`

[16]:
```
Nane       object
Class      object
Subject    object
Roll no     int64
Grade      object
```

```
       dtype: object
```

[17]: `df.describe()`

[17]:
```
              Roll no
       count  9.000000
       mean   5.000000
       std    2.738613
       min    1.000000
       25%    3.000000
       50%    5.000000
       75%    7.000000
       max    9.000000
```

[18]: `df.isnull`

[18]:
```
       <bound method DataFrame.isnull of       Nane Class    Subject  Roll no Grade
       0   aradhya   1A     python       1    A
       1   radhika   1B    English       2    B
       2    pragya   1C      Maths       3    C
       3    shikha   1D    biology       4    D
       4    sakshi   1E   Computer       5    E
       5    prachi   1F    science       6    F
       6     sneha   1G    Physics       7    H
       7     parul   1H      Hindi       8    I
       8    Aastha   1I  chemistry       9    J>
```

[19]: `df.columns`

[19]: `Index(['Nane', 'Class', 'Subject', 'Roll no', 'Grade'], dtype='object')`

[20]: `df.index`

[20]: `RangeIndex(start=0, stop=9, step=1)`